

Db 5 EKLPPGWEKRMRSRPSGRGYYFNHITNPSQWERPSGNSSS 43

RESULT 12
 AAB74938 standard; peptide; 34 AA.
 ID AAB74938
 AC
 XX
 DT 27-JUN-2001 (first entry)
 XX
 DE Peptidyl prolyl isomerase WW domain containing peptide.
 XX
 KW Peptidyl prolyl isomerase; Pin-1; WW domain; modulator; kinase;
 KW phosphatase; 14-3-3 protein.
 XX
 Unidentified.
 OS
 PN WO200125477-A2.
 XX
 PD 12-APR-2001.
 XX
 PP 29-SEP-2000; 2000WO-GB003736.
 XX
 PR 01-OCT-1999; 99GB-00023208.
 XX
 PA (CAMB-) CAMBRIDGE DRUG DISCOVERY LTD.
 XX
 PI Pearson JA;
 XX
 DR WPI; 2001-266323/27.

Identifying modulator of kinase or phosphatase activity, involves
 contacting enzyme and its substrate in presence and absence of the
 modulator, contacting the substrate with a reporter and comparing its
 binding.

XX
 PS Disclosure; Page 3; 22pp; English.
 XX
 DR The present invention describes a method for identifying a modulator (I) of kinase or phosphatase activity. The method involves contacting the enzyme and its substrate (S) in the presence and absence of (I), contacting (S) with a reporter (R) excluding a natural antibody, which binds phosphorylated (S) with higher affinity than unphosphorylated (S), and comparing the binding of (R) to (S) treated in the presence of (I) than in the absence of (I). The method is useful for identifying a modulator of serine/threonine kinase activity and phosphatase activity. Use of recombinant proteins or synthetic peptides provide an economical, rapidly generated, non-exhaustible supply of reporter, offering considerable practical advantage over antibodies. The present sequence represents a peptidyl prolyl isomerase (Pin-1) amino acid sequence which contains a WW domain. WW domain containing proteins have been identified as having phosphoserine or phosphothreonine binding activities. WW domain containing proteins can be used as reporters in the method of the invention.

XX
 SQ Sequence 34 AA;

Query Match 88.8%; Score 191; DB 4; Length 34;
 Best Local Similarity 100.0%; Pred. No. 9.6e-19;
 Matches 34; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 EKLPPGWEKRMRSRPSGRGYYFNHITNPSQWERPS 34
 Db 1 EKLPPGWEKRMRSRPSGRGYYFNHITNPSQWERPS 34

RESULT 13
 AAU32052 standard; protein; 195 AA.
 ID AAU32052
 XX
 AC AAU32052;
 XX
 DE Novel human diagnostic protein #11938.
 XX
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder.
 XX
 OS Homo sapiens.

DT 18-DEC-2001 (first entry)
 XX
 DE Novel human secreted protein #2543.
 XX
 KW Human; vaccination; gene therapy; nutritional supplement;
 KW stem cell proliferation; haemopoiesis; nerve tissue regeneration;
 KW immune suppression; immune stimulation; anti-inflammatory; leukaemia;
 XX
 OS Homo sapiens.
 XX
 PN WO200179449-A2.
 XX
 PD 25-OCT-2001.
 XX
 PF 16-APR-2001; 2001WO-US008656.
 XX
 PR 18-APR-2000; 2000US-00552299.
 PR 26-JAN-2001; 2001US-0070160.
 XX
 PA (HYSEQ INC.).
 XX
 PI Tang YT, Liu C, Drmanac RT;
 XX
 DR WPI; 2001-611725/70.
 XX
 PT Nucleic acids encoding a range of human polypeptides, useful in genetic vaccination, testing and therapy.
 XX
 PS Claim 20; Page 548-549; 765pp; English.
 XX
 CC The invention relates to novel human secreted polypeptides. The polypeptides and antibodies to the polypeptides are useful for determining the presence of or predisposition to a disease associated with altered levels of polypeptide. The polypeptides are also useful for identifying agents (agonists and antagonists) that bind to them. Cells expressing the proteins are useful for identifying a therapeutic agent for use in treatment of a pathology related to aberrant expression or physiological interactions of the polypeptide. Vectors comprising the nucleic acids encoding the polypeptides and cells genetically engineered to express them are also useful for producing the proteins. The proteins are useful in genetic vaccination, testing and therapy, and can be used as nutritional supplements. They may be used to increase stem cell proliferation; to regulate haematopoiesis; and in bone, cartilage, tendon and/or nerve tissue growth or regeneration; immune suppression and/or stimulation; as anti-inflammatory agents; and in treatment of leukaemias. AAU29510-AAU33304 represent the amino acid sequences of novel human secreted proteins of the invention.
 XX
 SQ Sequence 195 AA;

Query Match 81.4%; Score 175; DB 4; Length 195;
 Best Local Similarity 66.0%; Pred. No. 1.2e-15;
 Matches 35; Conservative 0; Mismatches 0; Indels 18; Gaps 1;
 Qy 5 PGWEKRMRSRSS-----GRVYYFNHITNASQWERPSGNSSS 39
 Db 1 PGWEKRMRSRSSVVNTQEAIPRDAKGRVYYFNHITNASQWERPSGNSSS 53

RESULT 14
 ABG11947 standard; protein; 259 AA.
 ID ABG11947
 XX
 AC ABG11947;
 XX
 DE Novel human diagnostic protein #11938.
 XX
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder.
 XX
 OS Homo sapiens.

DT 18-FEB-2002 (first entry)
 XX
 DE Novel human diagnostic protein #11938.
 XX
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder.
 XX
 OS Homo sapiens.

KW muscular dystrophy; human.
 XX
 PN WO200175067-A2.
 XX
 OS Homo sapiens.
 XX
 PD 11-OCT-2001.
 XX
 PR 30-MAR-2001; 2001WO-US008631.
 XX
 PR 31-MAR-2000; 2000US-00540217.
 XX
 PR 23-AUG-2000; 2000US-00649167.
 XX
 PA (HYSE-) HYSEQ INC.
 XX
 PJI Drmanac RT, Liu C, Tang YT;
 XX
 DR WPI; 2001-639362/73.
 DR N-PSDB; AAS76134.
 XX
 PR New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.
 XX
 PS Claim 20; SEQ ID NO 42306; 103pp; English.
 XX
 CC The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. ABG00010-ABG30377 represent novel human diagnostic amino acid sequences of the invention. Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 259 AA;
 XX
 Query Match 81.4%; Score 175; DB 4; Length 259;
 Best Local Similarity 66.0%; Pred. No. 1.7e-15;
 Matches 35; Conservative 0; Mismatches 0; Indels 18; Gaps 1;
 QY 5 PGWEEKRMSRSS-----GRVYYFNHITNASQWERPSGNSSS 39
 1 PGWEEKRMSRSSVNTQEALPTAAIPDAKGRVYYFNHITNASQWERPSGNSSS 53
 Db 1 LPPGWEKRMRSQQGRVYYFNHTTNASQWERP 31

RESULT 15
 AAB21943 ID AAB21943 standard; peptide; 31 AA.
 XX AC AAB21943;
 XX DT 02-JAN-2001 (first entry)
 XX DE Pin1/human peptide containing a WW-domain #1.
 XX
 KW WW-domain; protein-protein interaction; cell growth regulation;
 KW protein degradation regulation; Alzheimer's; Dementia pugilistica;
 KW Down's syndrome; Parkinson's disease; Pick's; neurodegenerative;
 KW microtubule assembly; tau; hyperplasia; neoplasia; malignancy; psoriasis;
 KW retinosis; atherosclerosis; leukaemia; lymphoma; papilloma;
 KW pulmonary fibrosis; rheumatoid arthritis; multiple sclerosis;

RESULT 16
 ABG12572 ID ABG12572 standard; protein; 191 AA.
 XX AC ABG12572;
 XX DT 18-FEB-2002 (first entry)
 XX DE Novel human diagnostic protein #12563.
 KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder.
 OS Homo sapiens.